

Hector International Airport

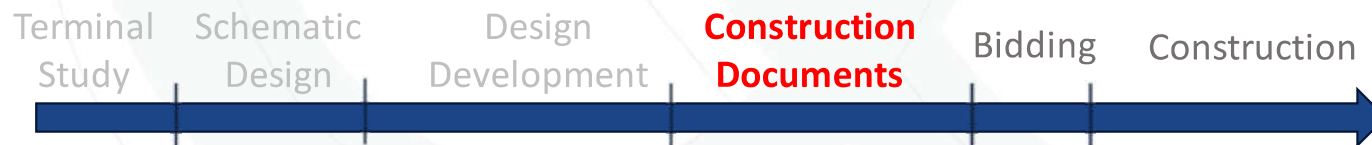
Fargo

Mead
& Hunt

**TERMINAL RENOVATION AND EXPANSION
DESIGN DEVELOPMENT PROGRESS UPDATE
AUGUST 15, 2023**

DESIGN AND CONSTRUCTION PROGRESS UPDATE

- COMPLETED DESIGN DEVELOPMENT PHASE
- ENTERING THE FINAL CONSTRUCTION DOCUMENTS PHASE
- BROUGHT ON BOARD A CONSTRUCTION MANAGER
- STILL ON TARGET TO BEGIN CONSTRUCTION STARTING SPRING 2024



TODAY....

- FUNDING/FINANCIAL UPDATE
- DESIGN UPDATE-EXTERIOR
- DESIGN UPDATE-INTERIOR
- NEXT STEPS

FUNDING RECAP/UPDATE

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Fargo – Sustained Population Growth



Demographics

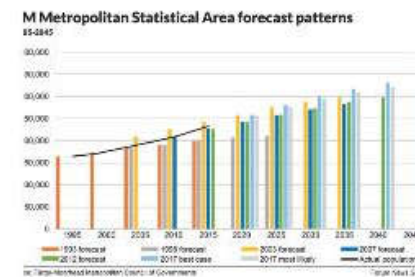
Fargo is the central city in the vibrant and growing Fargo-Moorhead Metropolitan Area. The metro area is bisected by the Red River of the North, which is also the boundary between North Dakota and Minnesota. This community serves as a regional center of education, commerce and health care.

Year	Fargo	Growth	Cass County	Growth	Metro Area	Growth	State	Growth
1960	47,000	N/A	66,947	N/A	106,027	N/A	632,442	N/A
1970	53,365	14%	73,653	10%	120,261	13%	617,792	-2%
1980	61,383	15%	88,247	20%	137,574	14%	652,717	6%
1990	74,084	21%	102,874	17%	153,296	11%	638,800	-2%
2000	90,599	22%	123,138	20%	175,367	14%	642,200	1%
2010	105,549	17%	149,778	22%	208,777	19%	672,591	5%
2020	125,853	19%	183,904	23%	249,843	20%	765,309	14%



Fargo-Moorhead population projected to grow 50 percent by 2045

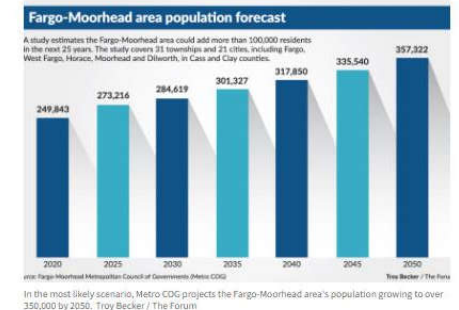
FARGO — The population in and around the Fargo-Moorhead area is expected to grow nearly 50 percent by 2045, according to "best case scenario" projections approved Thursday by a Metropolitan Council of Governments committee.



NEWS WEST FARGO

Fargo-Moorhead area projected to grow by at least 100,000 people by 2050, Metro COG says

The Fargo-Moorhead Metropolitan Council of Governments recently released its demographic study of the area



550-ton crane wraps up work at Bell Bank complex downtown

Construction workers said they've never seen a machine this big on a project in the FM area.



Fargo – Strong State Economy (Oil/AG/Tech)



North Dakota's Top 5 agriculture exports, estimates, 2021		Exports rank among States	Exports million dollars
Exports			
1. Soybeans		9	1,183.2
2. Wheat		2	1,077.7
3. Other oilseeds and products 4/		1	714.6
4. Corn		13	339.8
5. Soybean meal		9	242.4
Total exports		11	4,950.2

More information on agricultural exports in North Dakota

- [State Agricultural Trade Data](#)

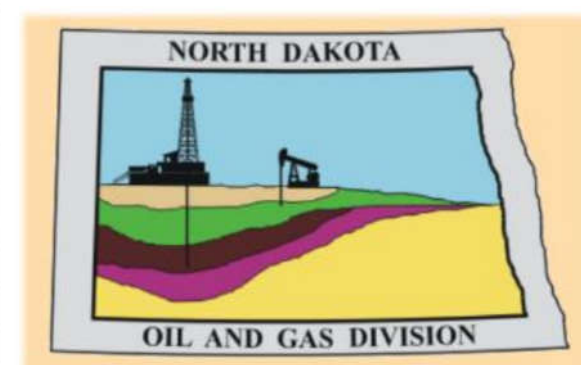
- [U.S. Agricultural Trade Topic Page](#)

- 1/ Includes other nonpoultry meats, animal fat, live farm animals, and other animal parts.

- 2/ Includes turkey meat, eggs, and other fowl products.

- 3/ Includes processed feeds, fodder, barley, oats, rye, and sorghum.

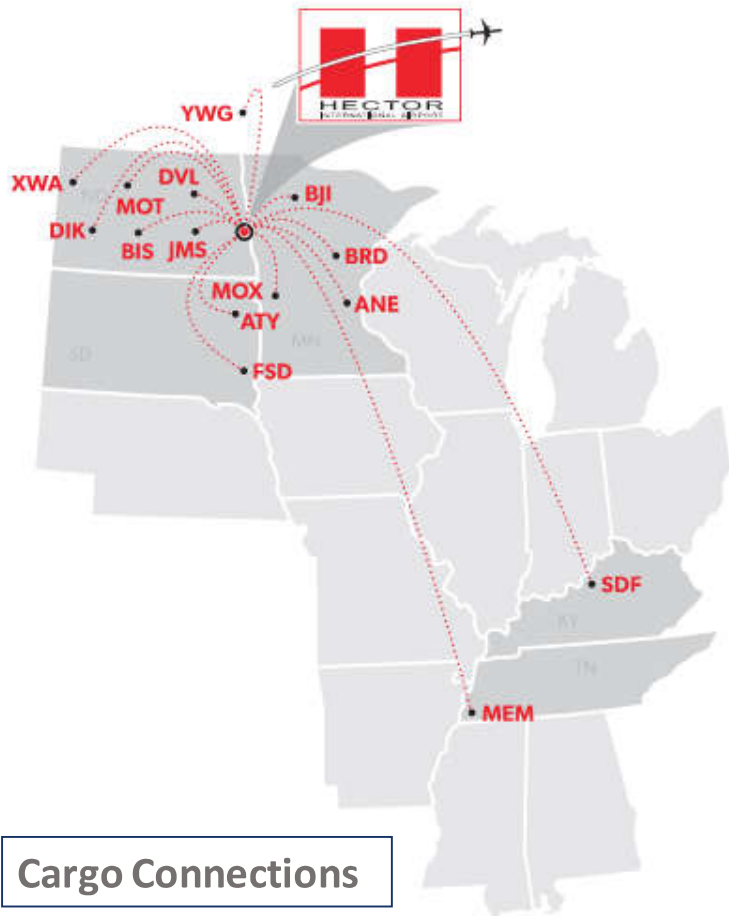
- 4/ Includes peanuts (oilstock), other oil crops, corn meal, other oilcake and meal, protein substances, bran and residues.



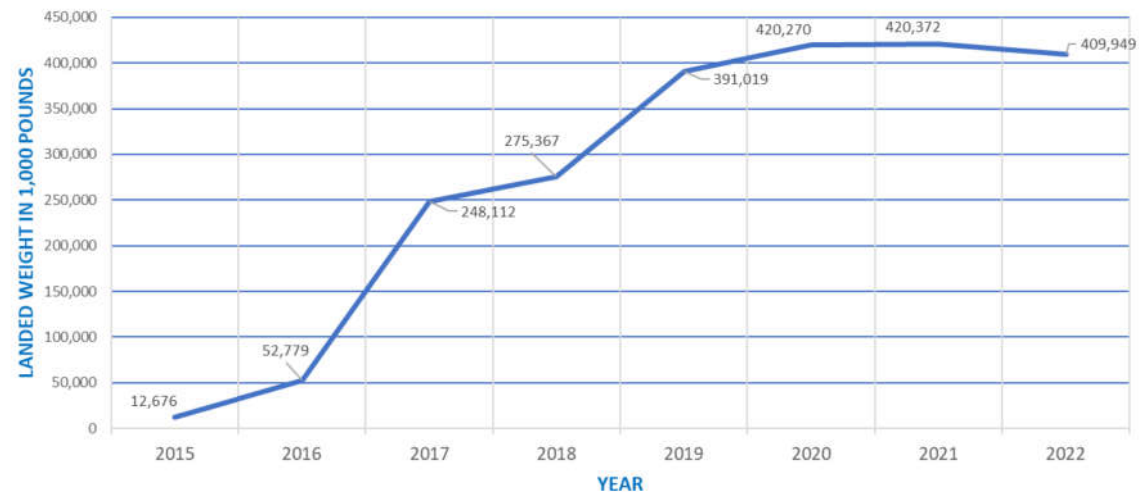
Oil Production by State 2023

Texas	1,782,009
North Dakota	431,241
New Mexico	379,226
Colorado	165,093
Alaska	163,852
California	144,349
Wyoming	89,002
Kansas	37,907
Louisiana	34,861

Fargo - Cargo



Air Cargo Annual Total Landed Weight



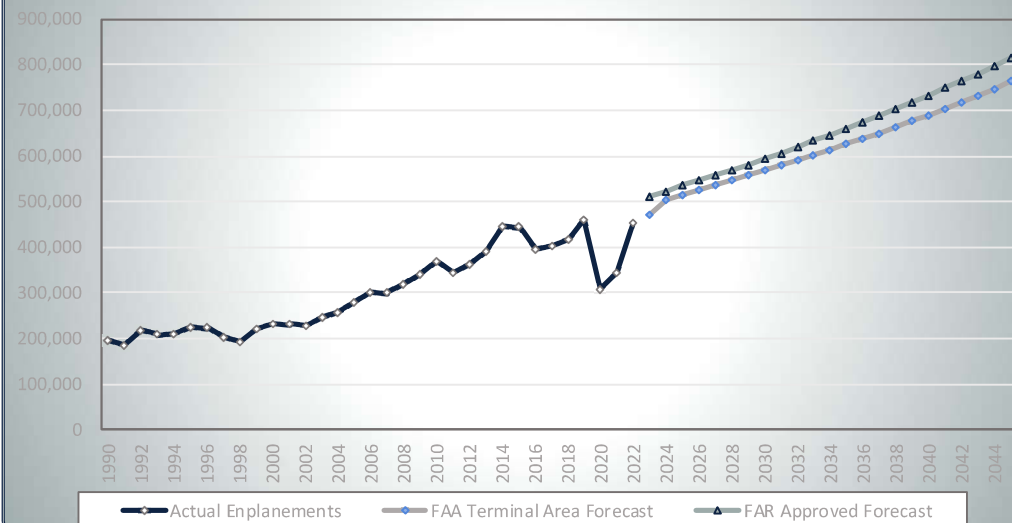
Source: Calendar Year 2021 All-Cargo Landed Weight 8/30/2022

Rank	City	Airport Name	Svc Lvl	Hub	2021 Landed Weight (lbs.)	2020 Landed Weight (lbs.)	% Change
75	Fargo	Hector International	P	S	420,371,732	420,270,416	0.02%

FAR Passenger Enplanements



Fargo International Airport (FAR) Enplanements



FAR

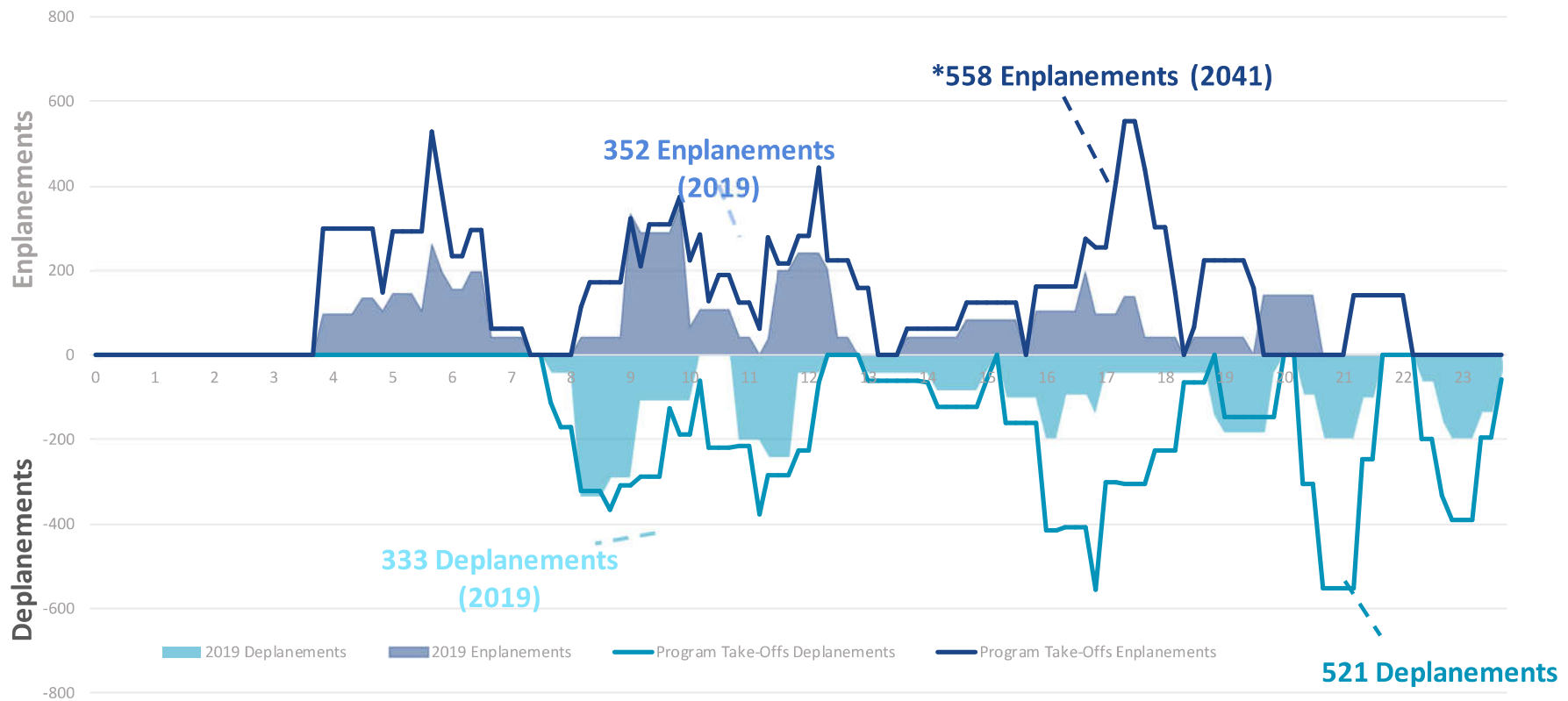
Unprecedented Growth

34.9% Growth from 2009-2019

2022 Airport has recovered from Pandemic.



FAR Peak Hour – Enplanements/Deplanements



* The time of day which peaking occurs at FAR vary throughout the year. The time of day of the peak hour in the spring may vary from the time of day of the peak hour in the summer, however, the number of enplanements/deplanements should be around the same.

Increased Demand



Destinations

Existing - 11 Anticipated - 4



Existing Airlines

American Airlines 

 **allegiant**[®]

 **DELTA**

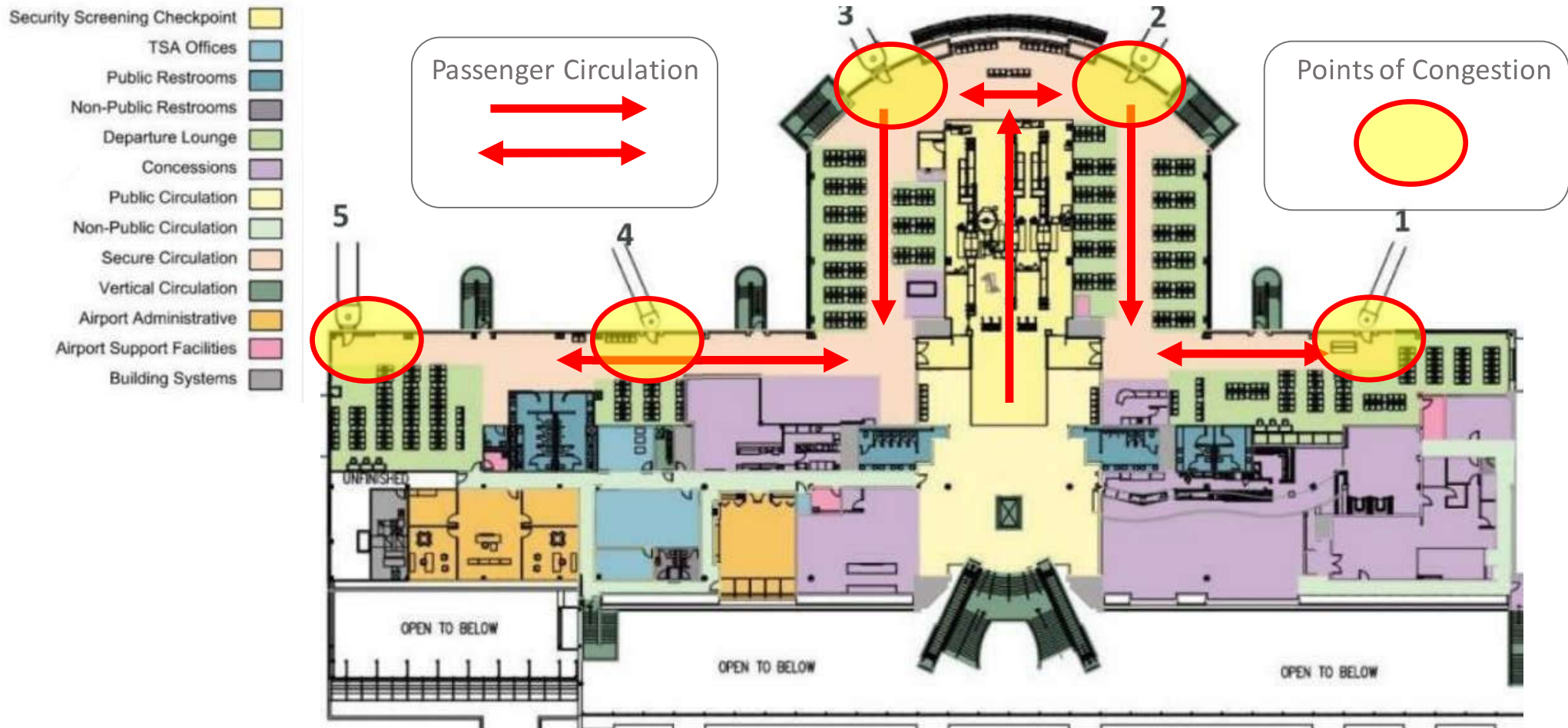
FRONTIER
AIRLINES

United
Airlines 

Anticipated Airlines

 **sun country airlines.**

The Issue – Circulation



FARGO TERMINAL - KEY ISSUES

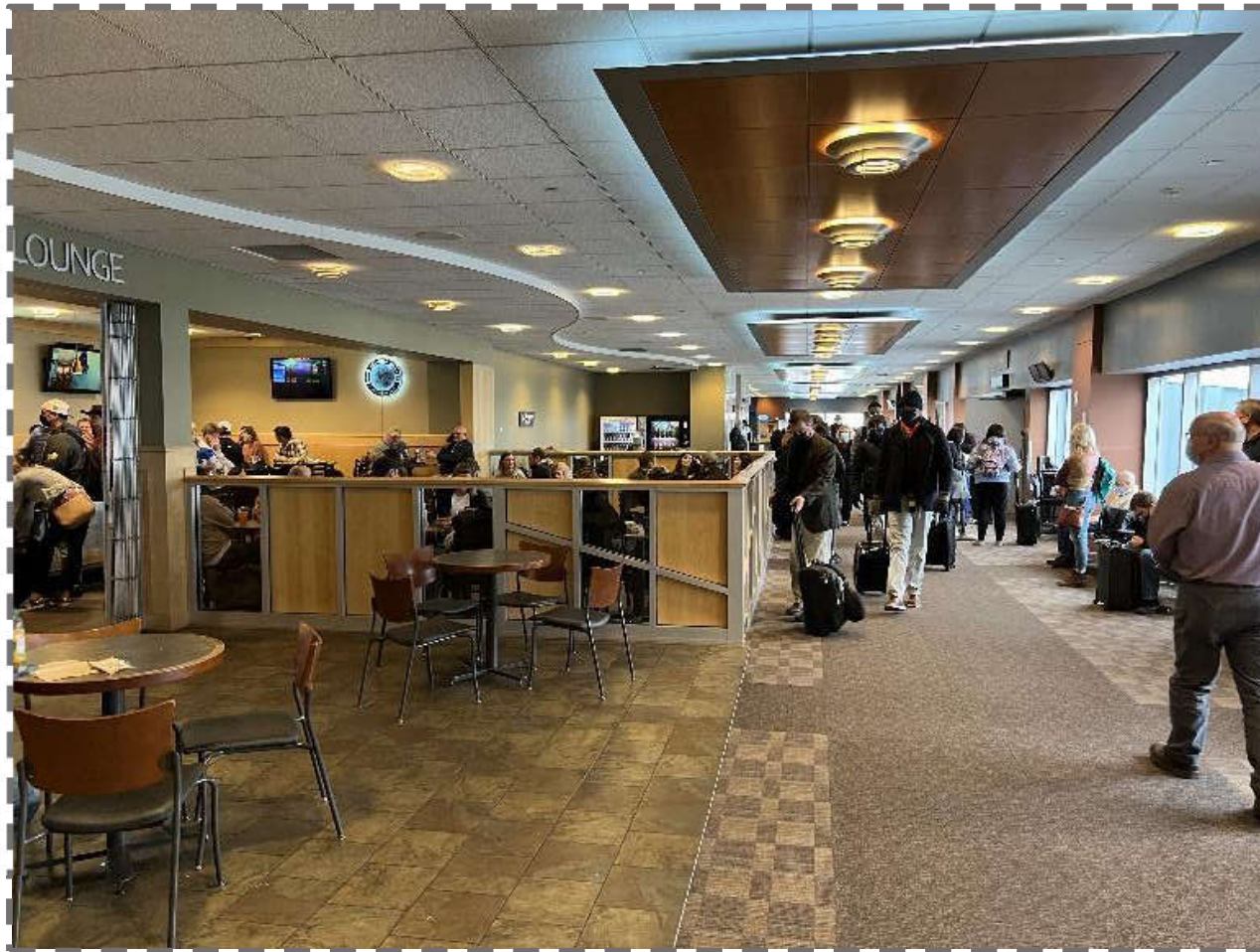


- **Terminal Capacity –**
–(TSA Checkpoint, Holdrooms, Circulation)
- **Aircraft Gates**
- **Baggage Makeup**

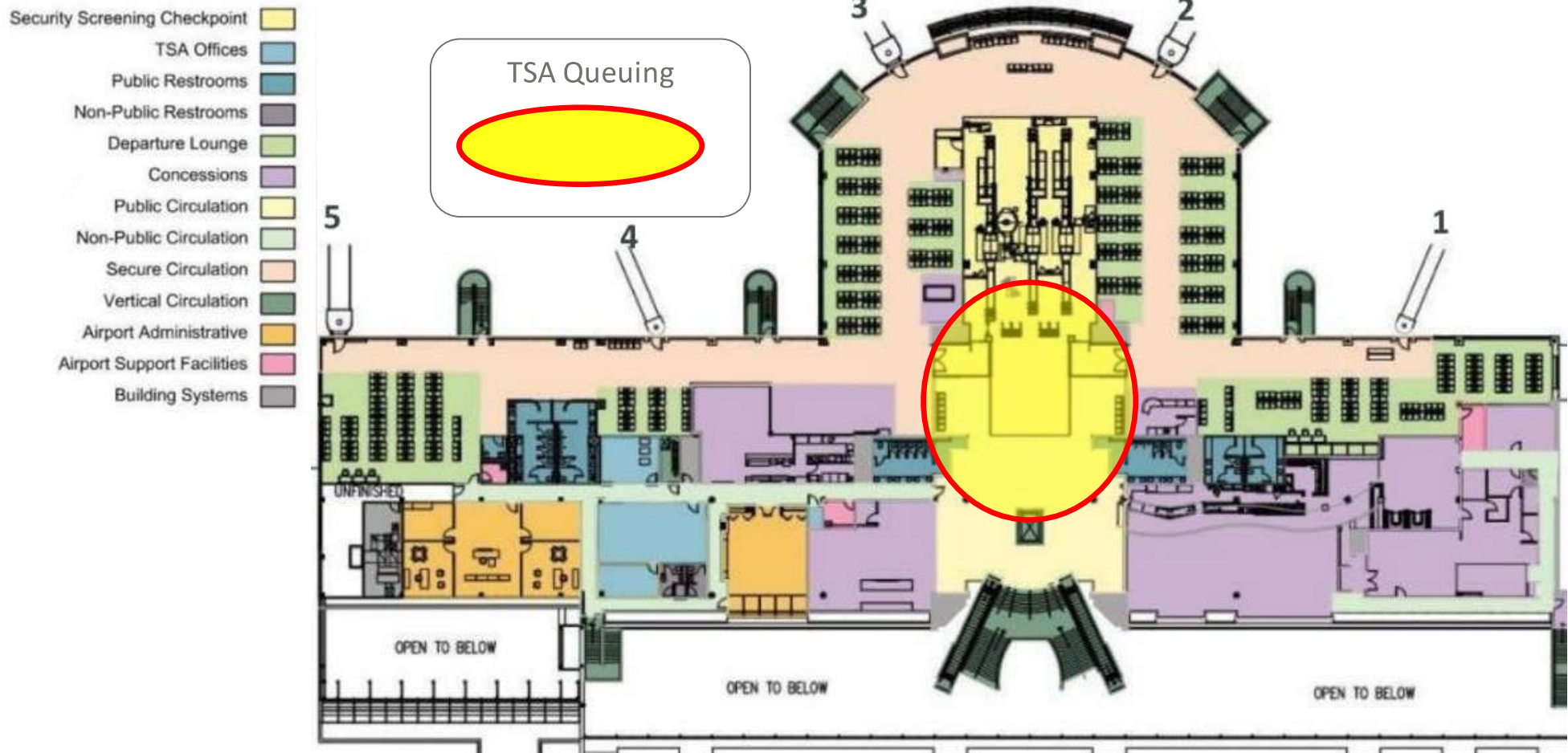
The Issue –Terminal Circulation



Passenger Circulation



The Issue – TSA Queuing



The Issue – TSA Queuing



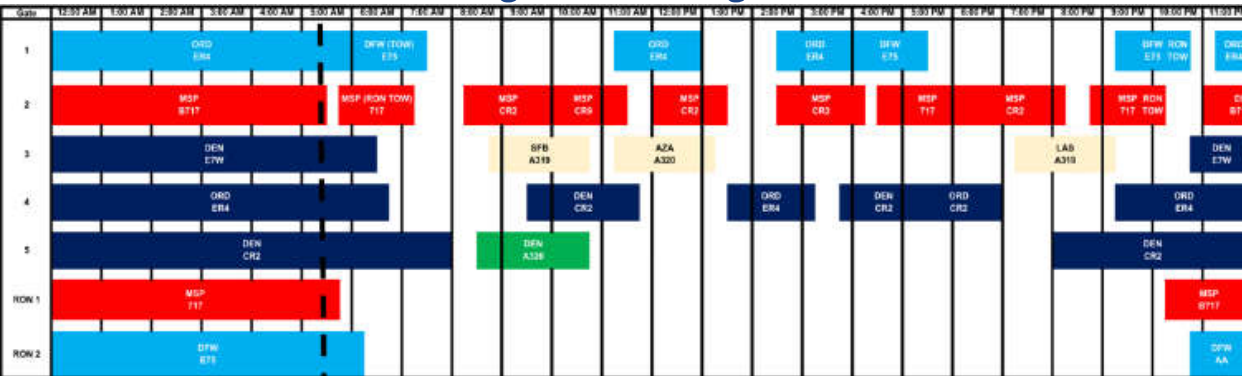
TSA Checkpoint Queuing



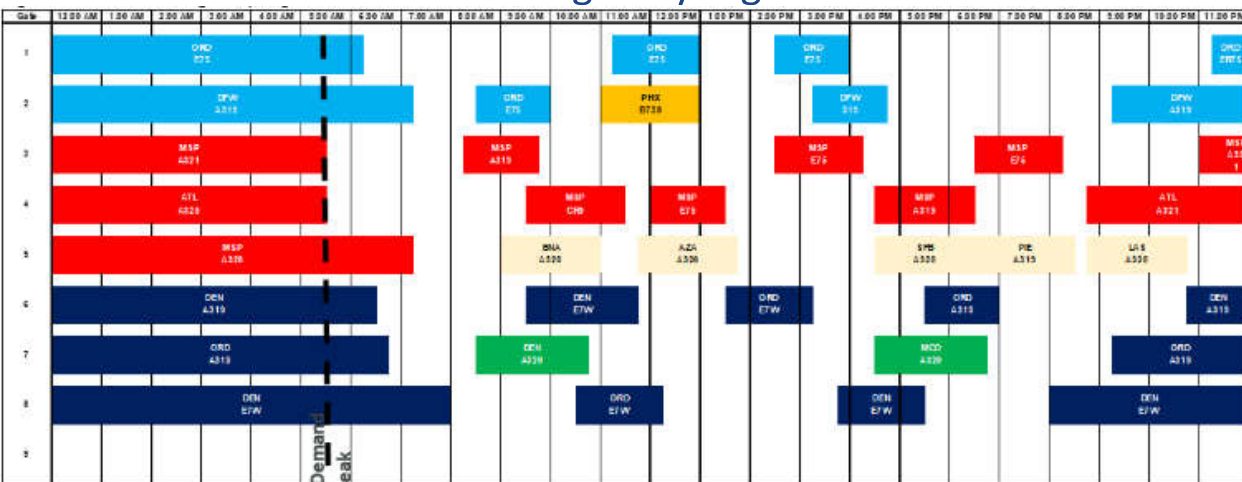
The Issue – Concourse (Holdrooms/Gates)



Existing Baseline Flight Schedule



Future Design Day Flight Schedule



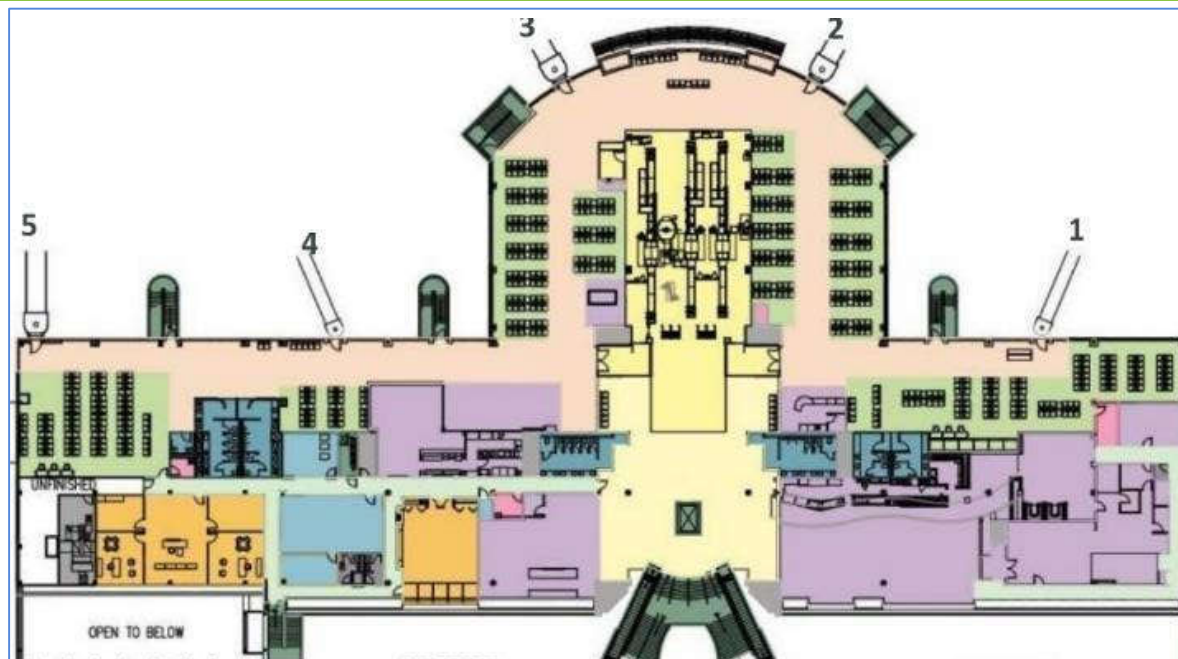
The Issue – Concourse (Holdrooms)



The Issue – Additional Requirements



- Security Screening Checkpoint
- TSA Offices
- Public Restrooms
- Non-Public Restrooms
- Departure Lounge
- Concessions
- Public Circulation
- Non-Public Circulation
- Secure Circulation
- Vertical Circulation
- Airport Administrative
- Airport Support Facilities
- Building Systems



			Terminal Requirements				
	Units	Existing	2021	2026	2031	2036	2041
Gates: Boarding Bridges	ea.	5	9	9	9	9	9
Departure Lounge (Holdrooms)	sf	8,564	24,562	24,562	24,562	24,562	24,562
Family Restrooms	sf	71	280	280	280	280	280
Nursing Station	sf	31	80	80	80	80	80
Service Animal Relieve Area	sf	0	0	200	200	200	200

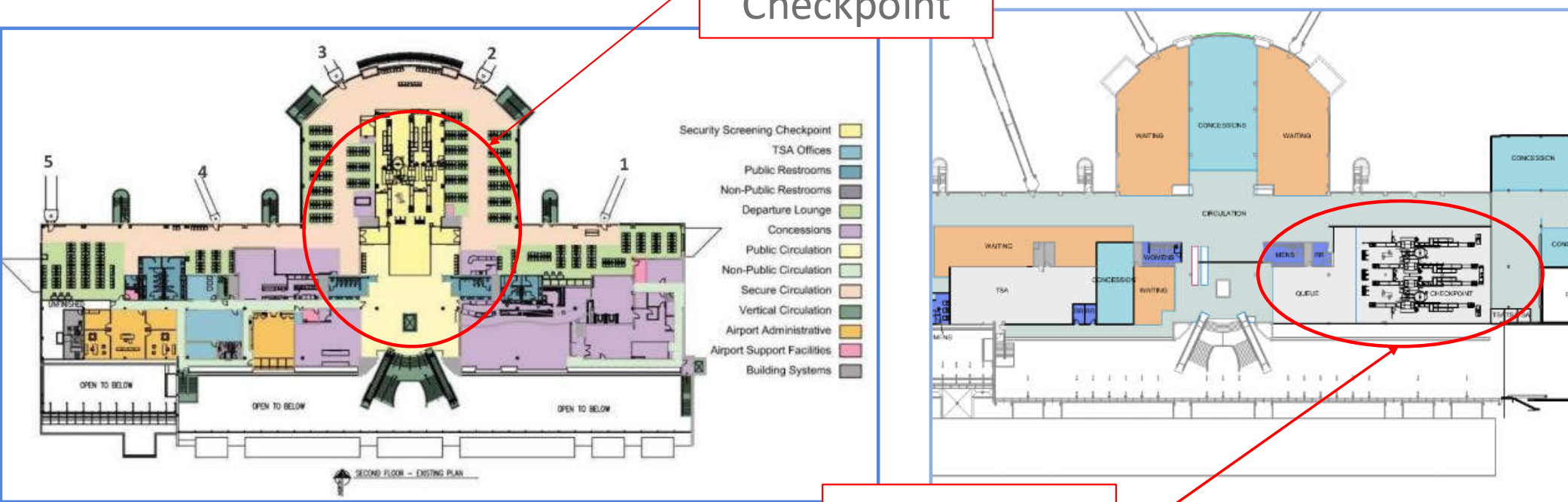
The Solution – TSA Checkpoint



Existing

Existing TSA
Checkpoint

Proposed



Proposed TSA
Checkpoint

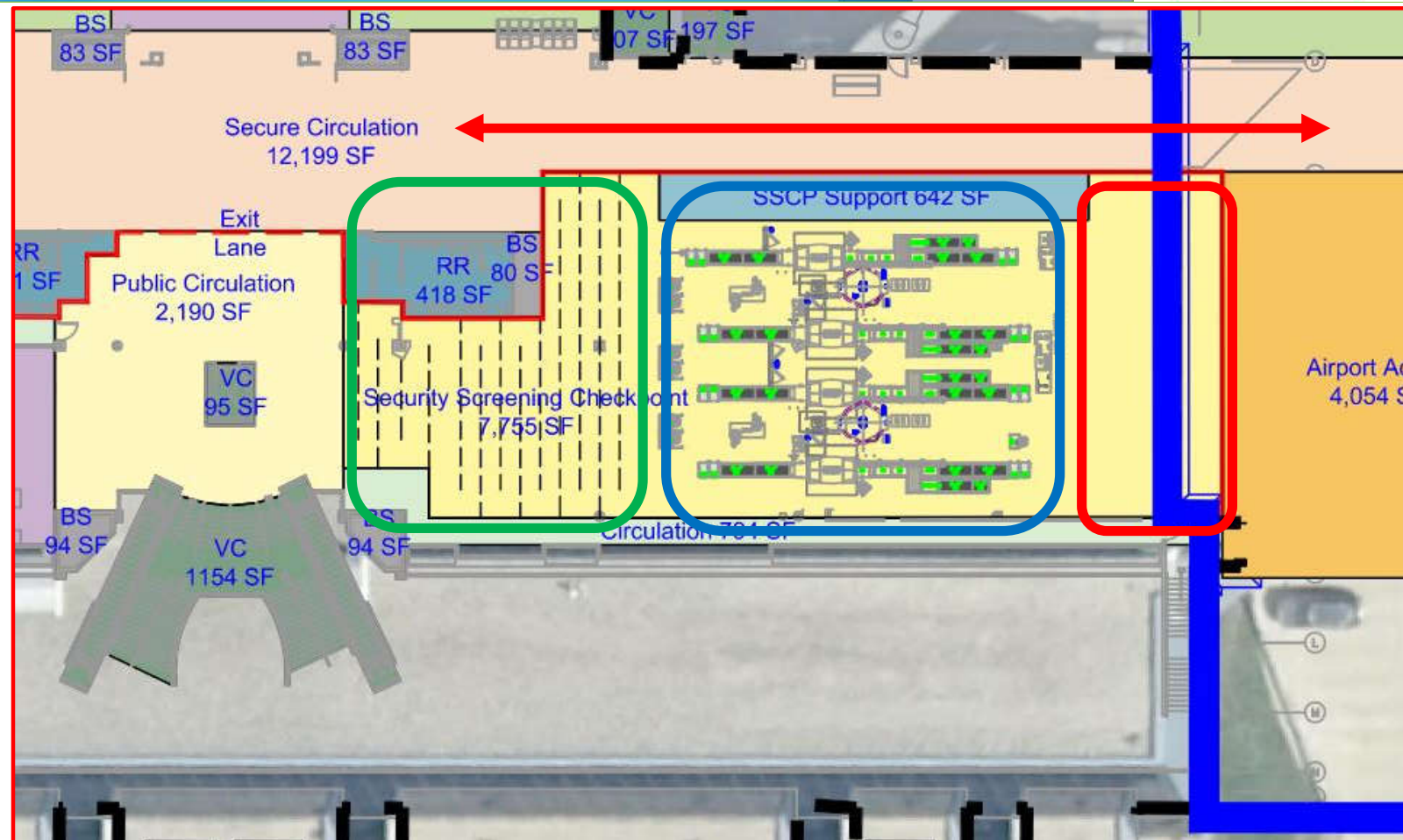
The Solution – TSA Checkpoint



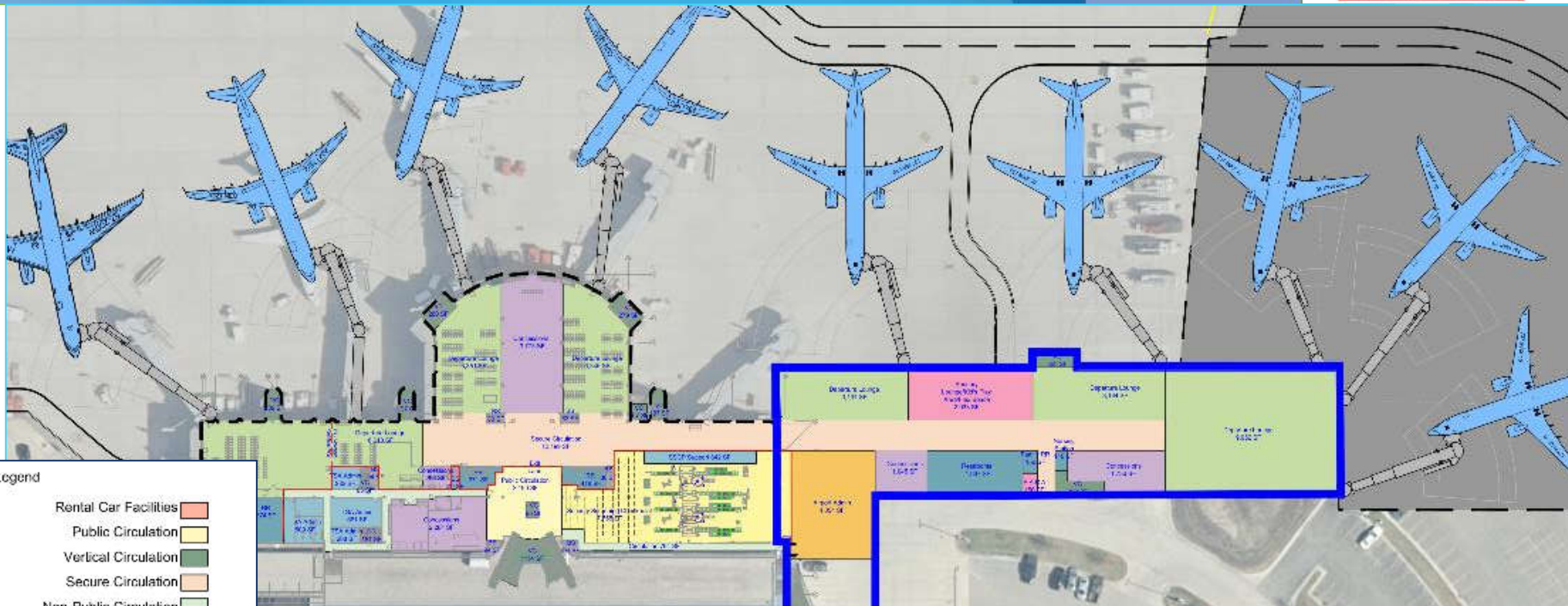
→ **Passenger Queueing :**
Clear of stairs,
escalators, and
walkways. Capacity:

→ **Security Lanes:**
Expandable to 4 lanes to
accommodate future
demand

→ **Recompose Area:**
Recompose doesn't
conflict with circulation
areas.



The Solutions – Concourse (Holdrooms/Gates)



Legend

Baggage Screening	Rental Car Facilities
TSA Offices	Public Circulation
Outbound Baggage	Vertical Circulation
Inbound Baggage	Secure Circulation
Baggage Claim	Non-Public Circulation
Public Restrooms	Airport Support Facilities
Non-Public Restrooms	Airport Administrative
Airline Ticket Offices	Building Systems
Ticketing Area Queuing	Gate Departure Lounge
Ticketing Area	Secure/Non-Secure Boundary
Concessions	Proposed Terminal Expansion
U.S.C.B.P.	Existing Terminal

- ➔ **Capacity:** Allows airport to accommodate existing and projected demand (Concessions, holdrooms, SARA, Family RR, Mother's Room)
- ➔ **Flexibility:** Adds 4 gates with all 9 gates able to accommodate a main line aircraft.
- ➔ **Adequate Holdroom Space:** Holdrooms accommodate trends to upsizing in aircraft.
- ➔ **Passenger Circulation:** Reconfiguration streamlines passenger flow.

The Solutions – Concourse (Holdroom/Gates)



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The Issue - Baggage Makeup



- Inefficient carousel due to columns (Requires carts to fit perpendicular)
- Baggage carousel is undersized for demand

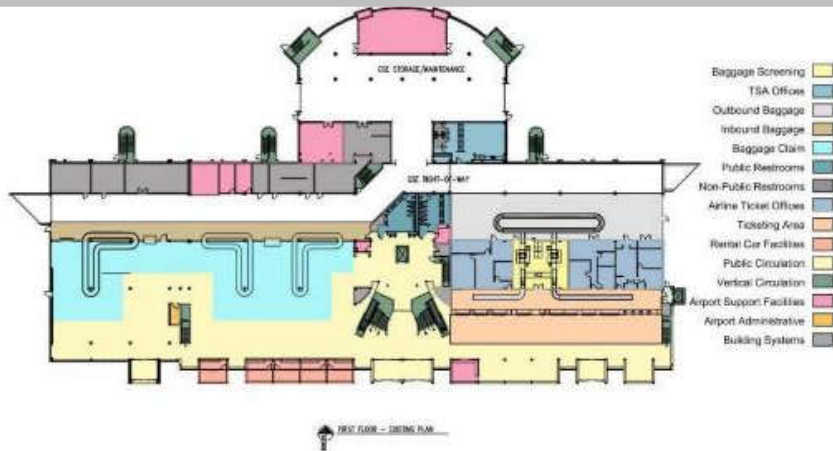
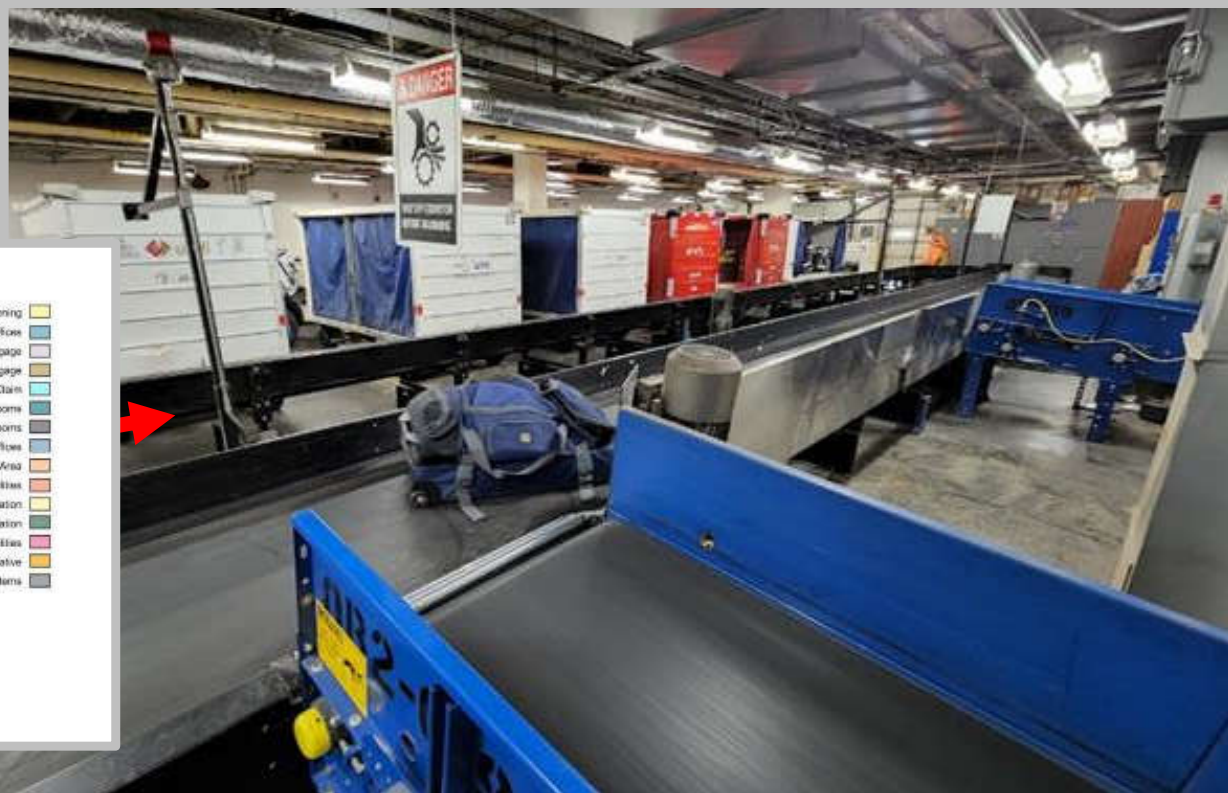
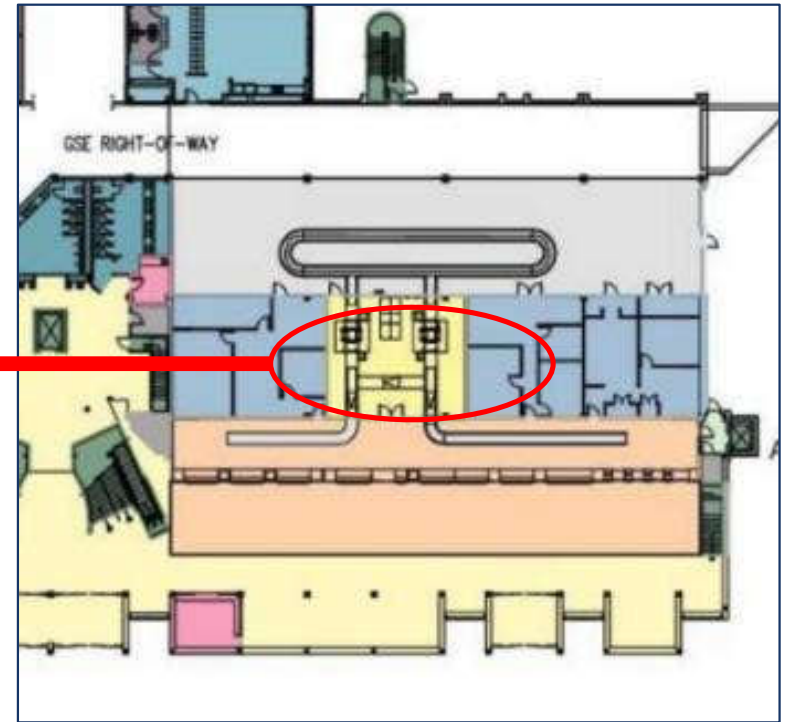


Figure 2-1 Lower Level Floor Plan

The Issue – Baggage Makeup



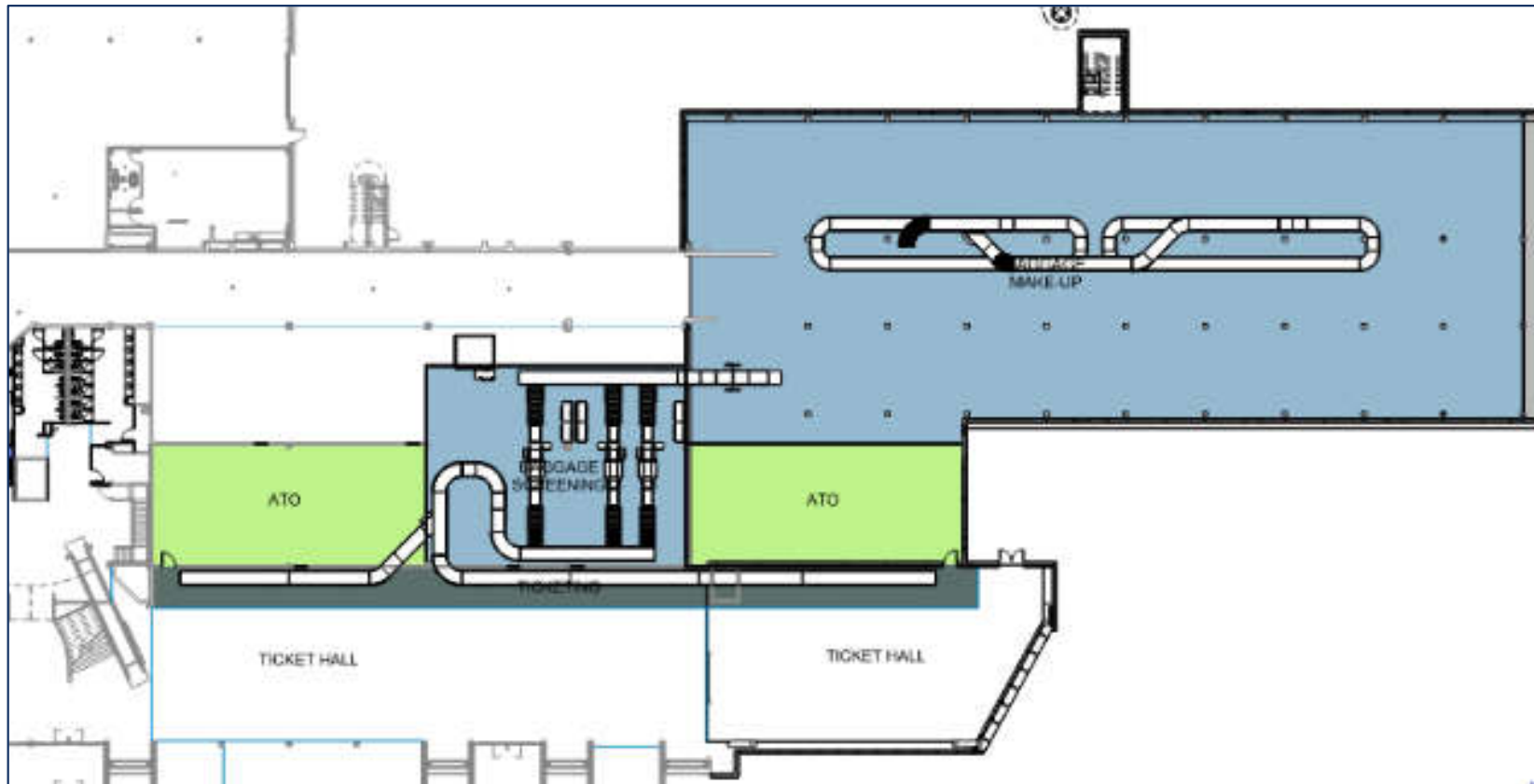
Existing



The Solution – Baggage Makeup

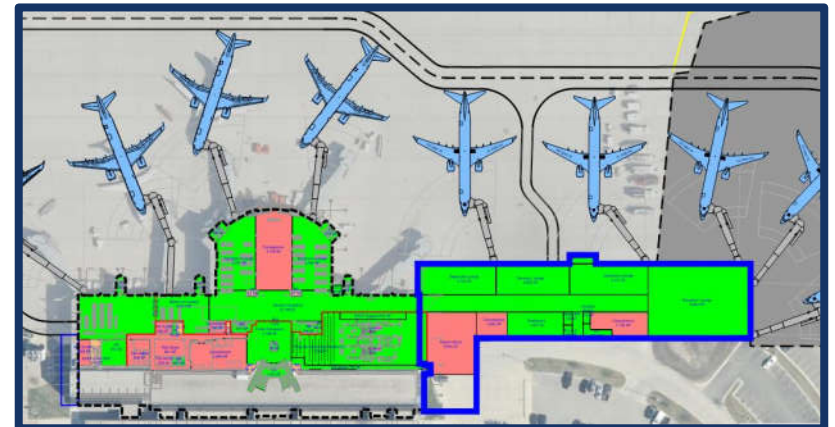


Proposed



Funding Considerations

- **Terminal Costs: \$124M**
 - Terminal Building/Apron/ Ground Parking Exp.
- **Federal Funding: \$51.3M**
 - Passenger Entitlements/BIL AIG - \$22.1 M
 - AIP Discretionary for Apron (Competitive) - \$9.2M
 - BIL ATP (Competitive) - \$20M
- **State Funding: \$44.3M**
 - ND Aeronautics - \$4.3M
 - Direct Allocation - \$40M
- **Local - \$28.4M**
 - PFC/Cash Reserves - \$23.4M



DESIGN UPDATE

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WHERE DESIGN STARTED

✈ Public input session, Dec 2022

DESCRIBE FARGO

downtown opportunity
resilient growing relaxed
welcoming modern
snow livable
friendly cold
family clean
people community
university growth forward
education bison farming
nice opportunities
manageable

TOP AMENITIES

Comfortable Seating
biophilic
Greenspace
Views
bar
Food
shopping
daylight
plants
Working Areas
Family Space
Quiet Areas

DESCRIBE NEW TERMINAL

Familiar
Iconic Calming
Exciting
Dynamic
Quiet
Discovery
Neutral
Colorful

TOP DESIGN PRIORITIES

photogenic
Beautiful
Regional
recognizable
durable
Sustainability
Energy Efficient
local
Practical



EXTERIOR

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INTERIOR

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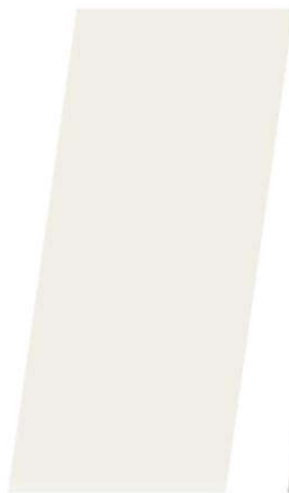




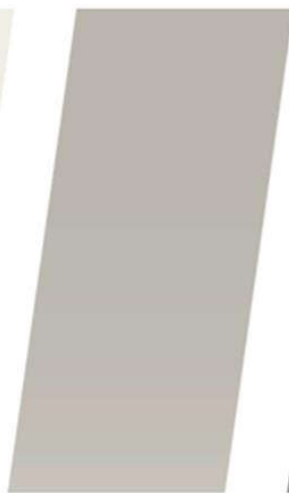


INTERIOR

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BENJAMIN MOORE
STEAM
AF-15



BENJAMIN MOORE
SILVER FOX
2801-50



BENJAMIN MOORE
BURNT EMBER
CSP-120



BENJAMIN MOORE
BACKWOODS
469



BENJAMIN MOORE
BLACK INK
2127-20



FINISHES



CARPET 1: MILLIKEN - OBEX



CARPET 2: MILLIKEN - PATHWAY



CARPET 3: MILLIKEN - REVEAL



CARPET 4: MILLIKEN - WANDER



PT-1 STEAM



CARPET 7: MILLIKEN - SIX PACK



PLAM - DOUGLAS FIR



CT-4: I NATURALI ADRESIA BIANCO



CT-4: I NATURALI PIETRA GREY



METALWORKS - IMMEX BLADES



PT-2 - THUNDER



FURNITURE



ARCONAS PLACE TANDEM SEATING



CAMBRIA
SANDGATE



ARCONAS - EMBARIQ



POLLACK
CAIRO GLYPH



ARCONAS - SURGE POWER STATION



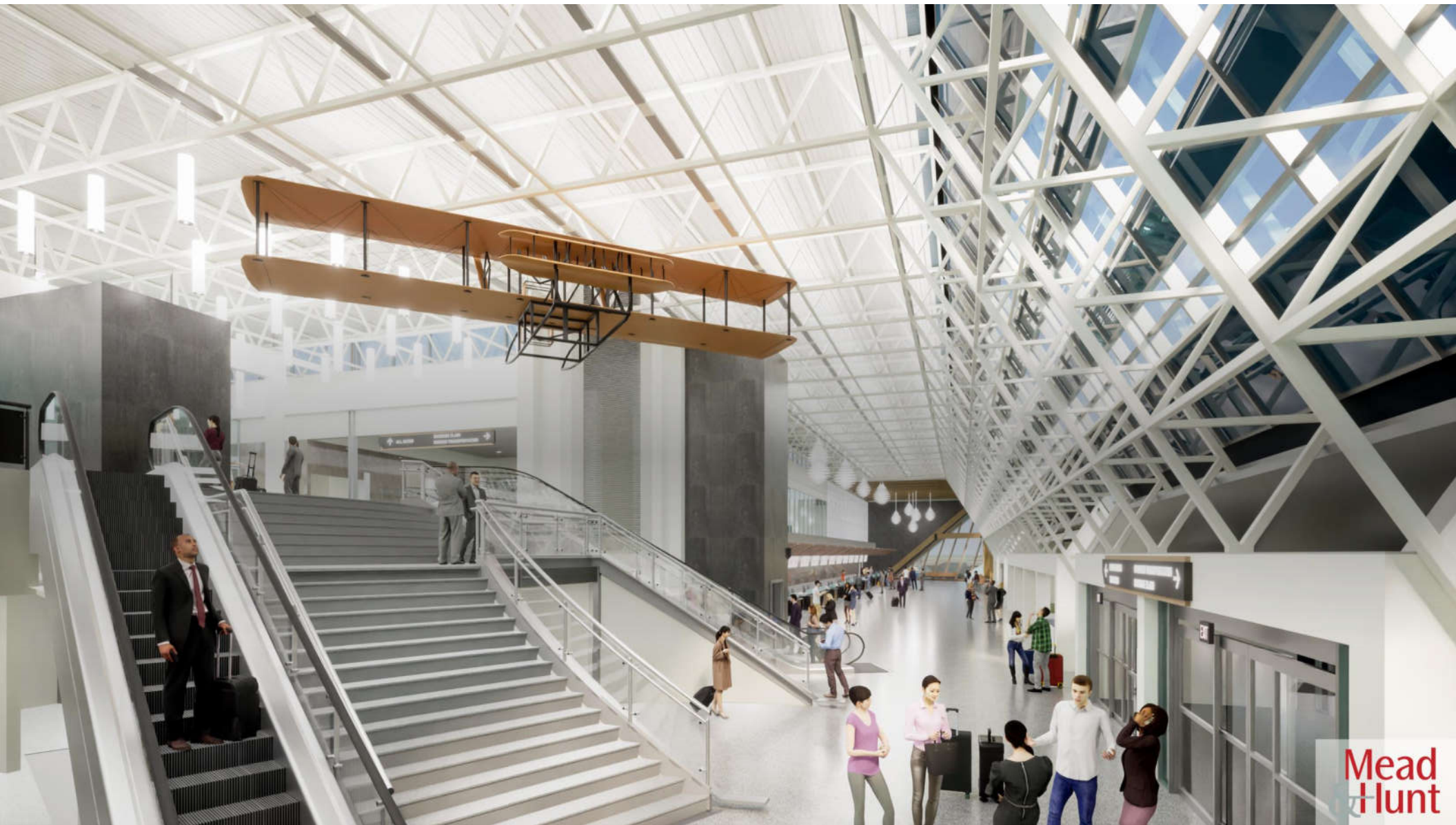
MAJIITE
DESTINY CACTUS



ARCONAS - INPOWER



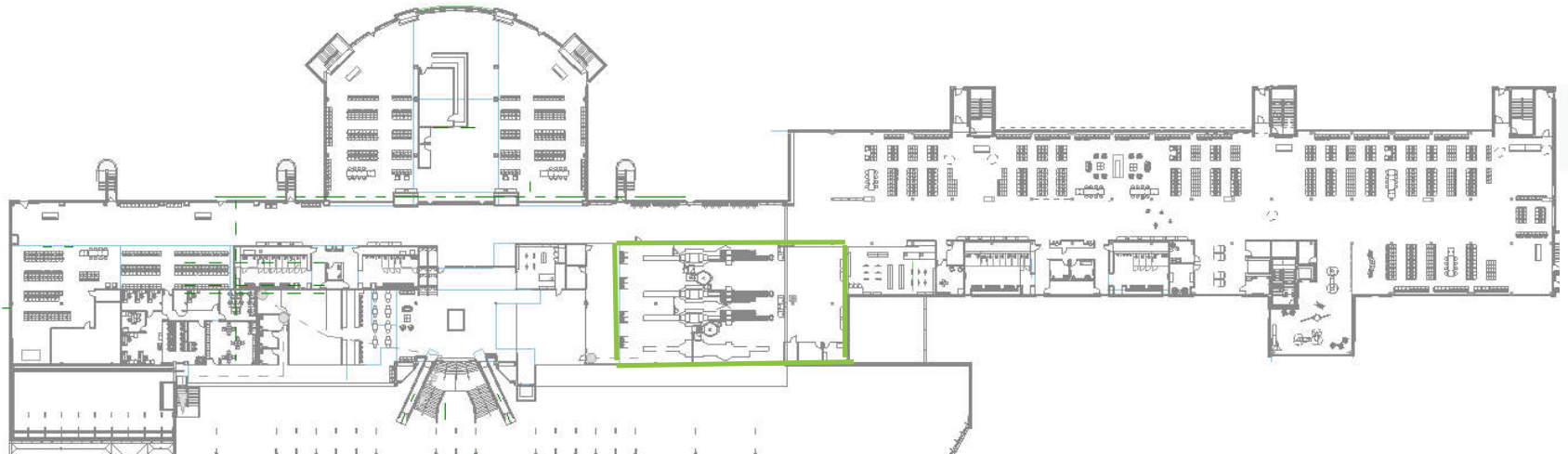
ARCONAS : ASCENT BENCH





SECURITY CHECK - POINT COMPOSURE AREA

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EXPANSION

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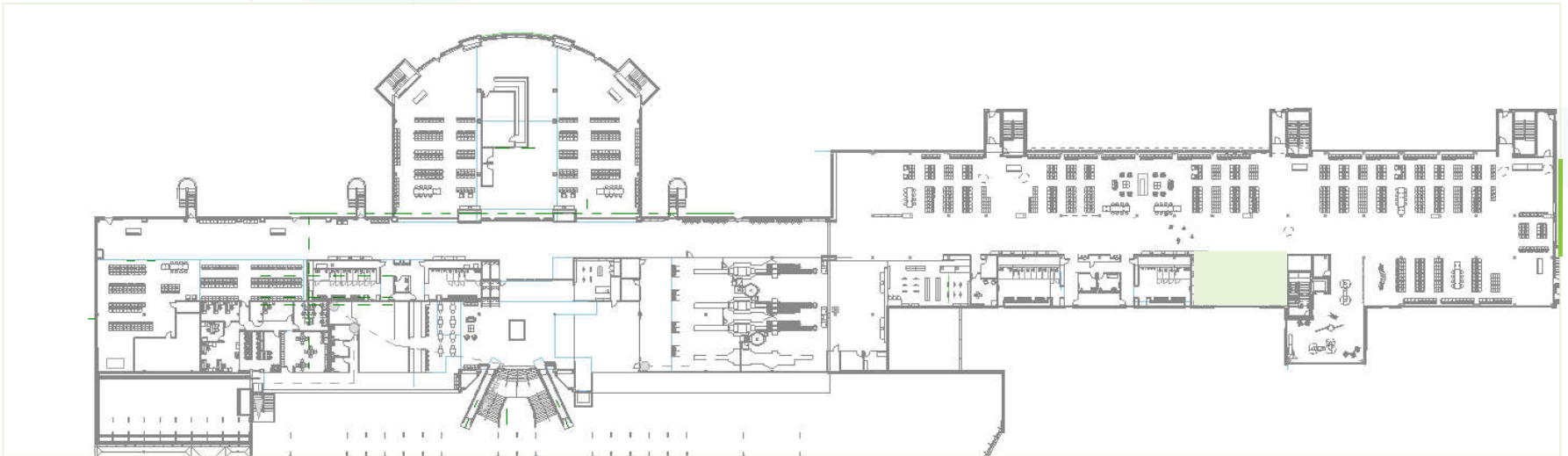






COMFORT ROOMS

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SENSORY ROOM



CAROLINA BY OFS: SAVEN ROCKER

NURTURING ROOM



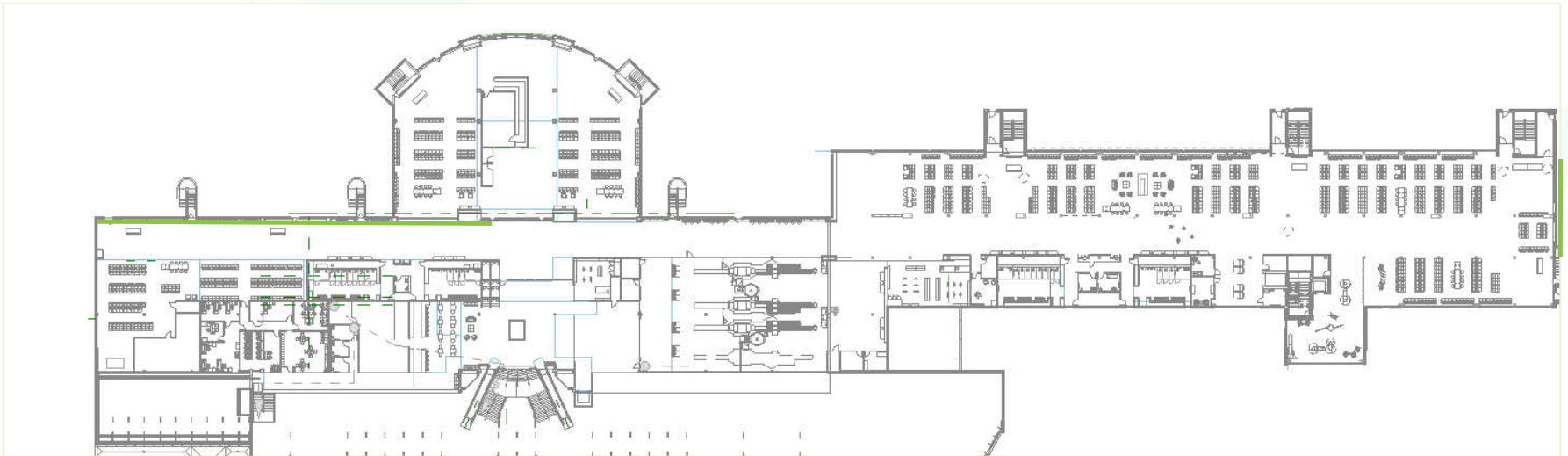
PLAY AREA



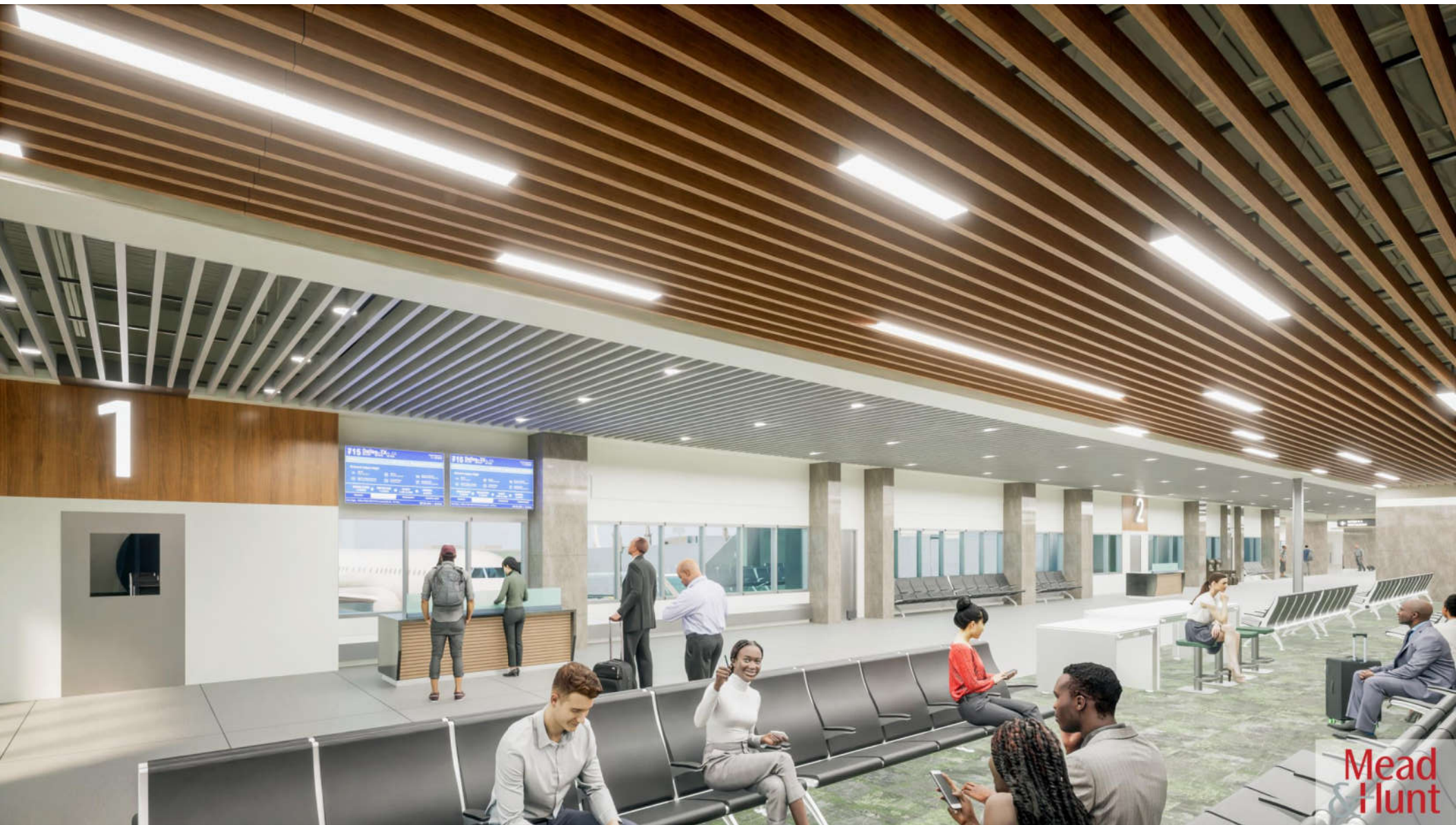
SARA

EXISTING GATES

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NEXT STEPS

- INTERIORS- WORKING WITH LOCAL PARTNERS TO FURTHER DEVELOP AREAS WITHIN THE TERMINAL SUCH AS ARTWORKS, SENSORY RX AND ADVERTISING
- DETAILING DESIGN TO CONSTRUCTABLE MEASURES
- EVALUATING MATERIAL LEAD TIMES AND EXPLORE EARLY PROCUREMENT TO SUPPORT A SPRING 2024 CONSTRUCTION START

The logo for Mead & Hunt is centered on a background with a blue-to-orange gradient and faint circular patterns. The text "Mead & Hunt" is in a white serif font, with the ampersand being a stylized, overlapping design.

Mead
& Hunt

